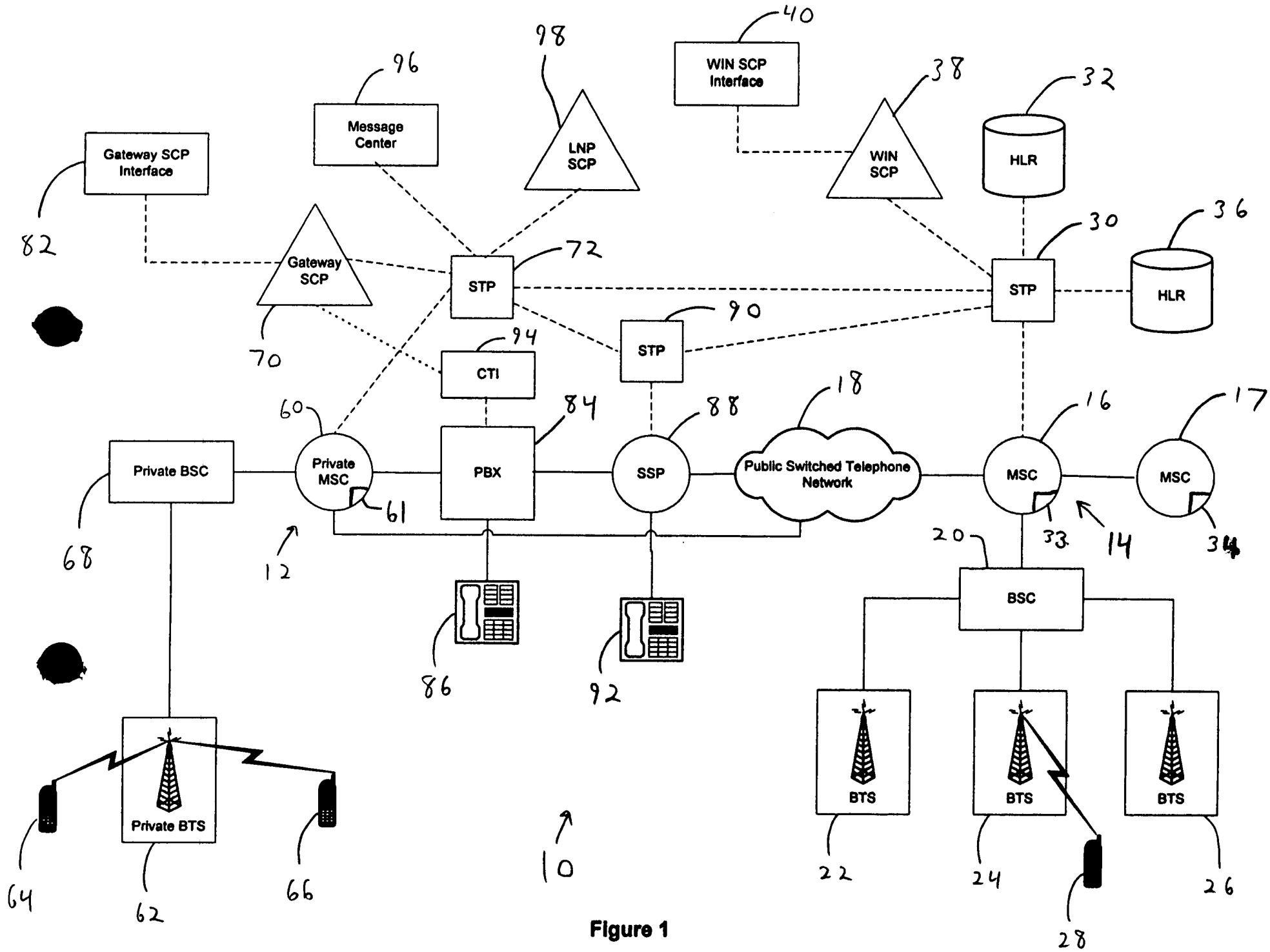

Figure 1

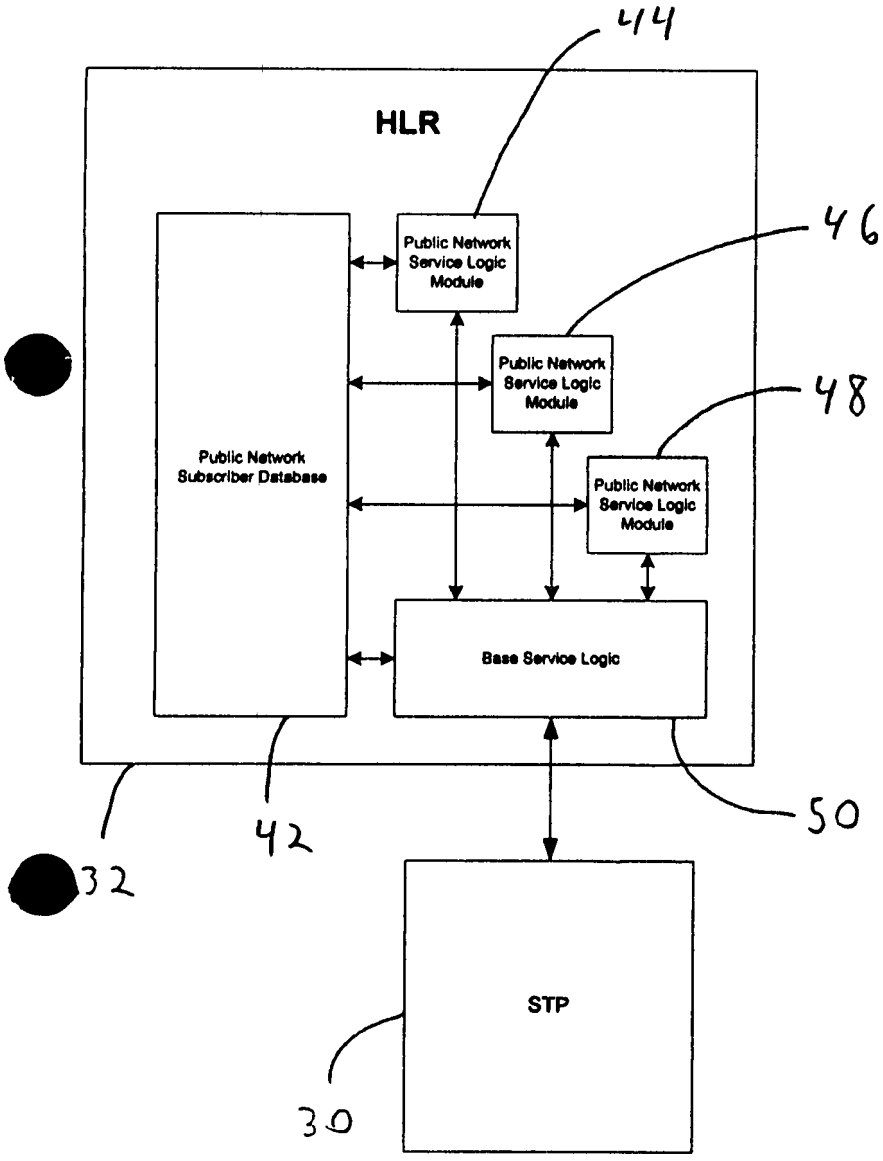

Figure 2

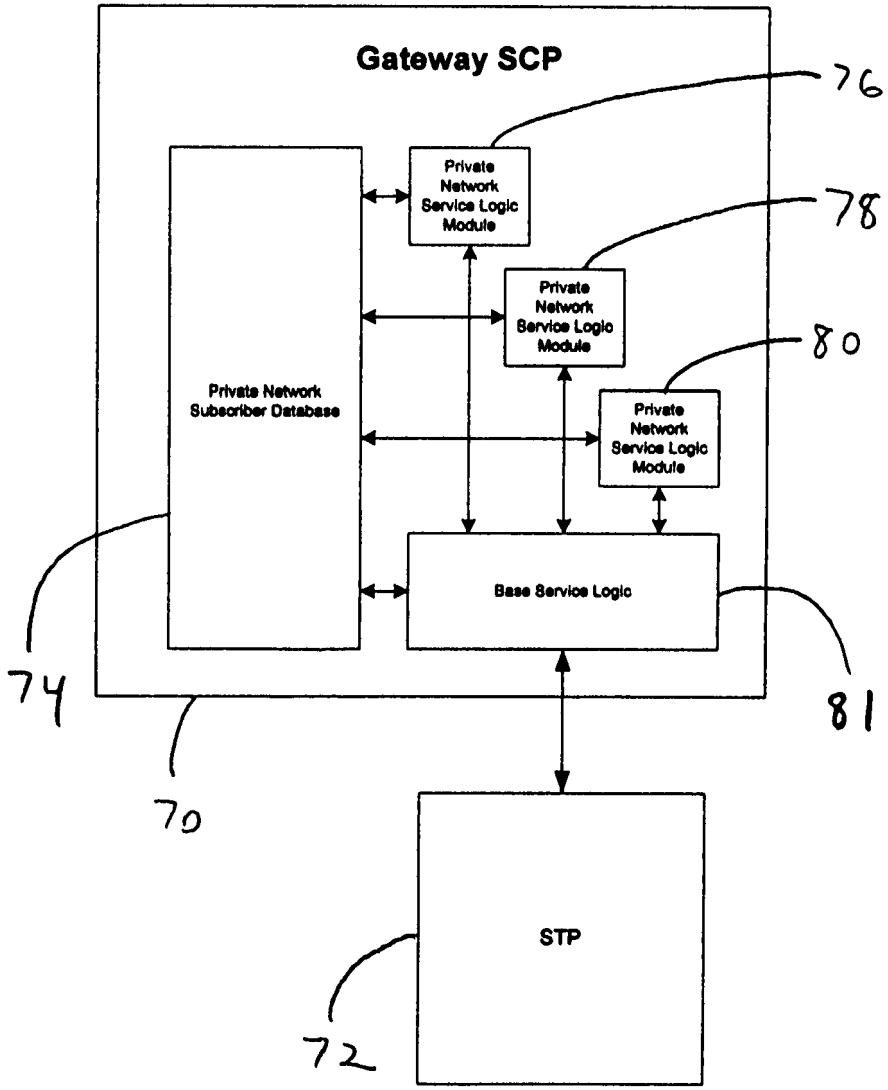

Figure 3

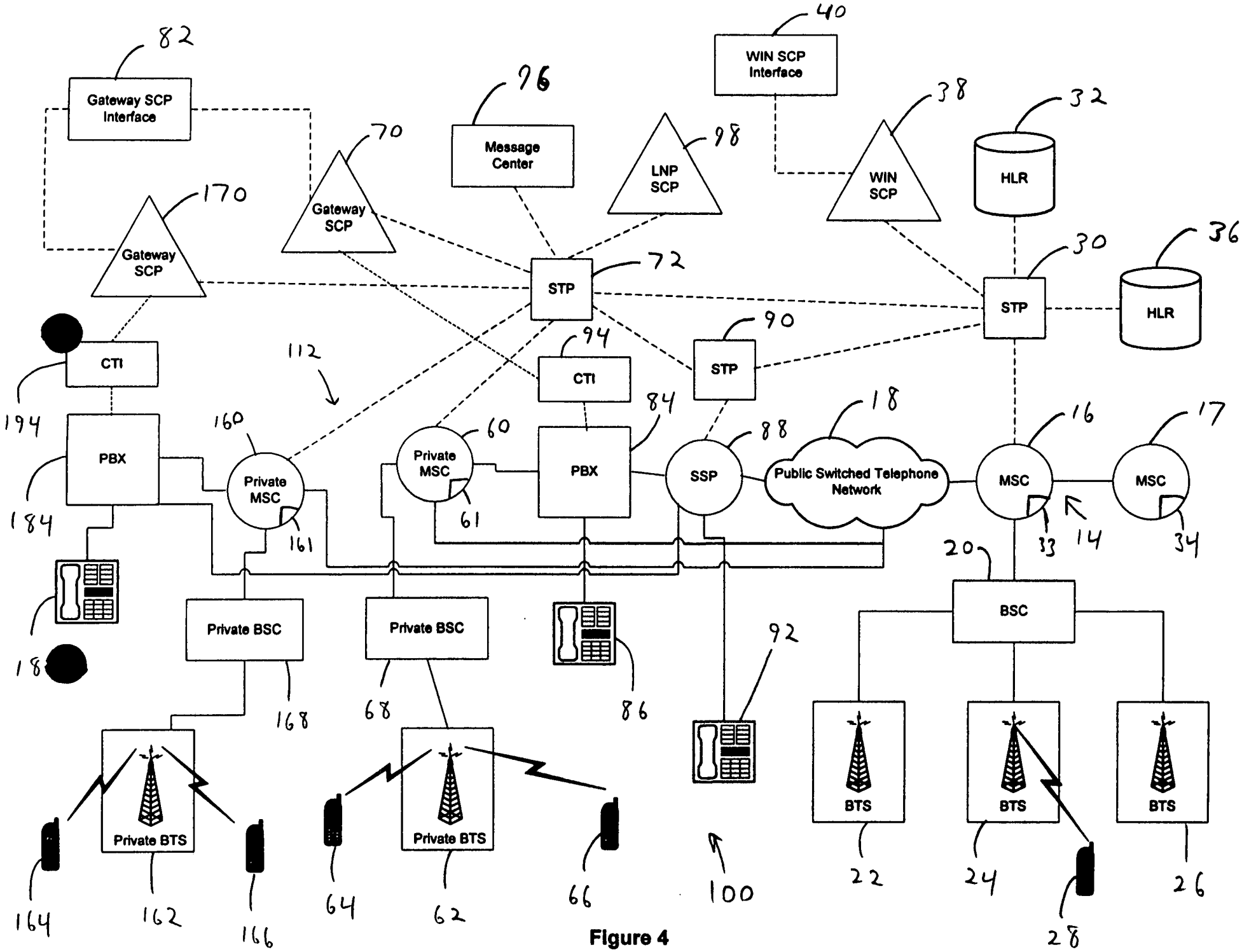

Figure 4

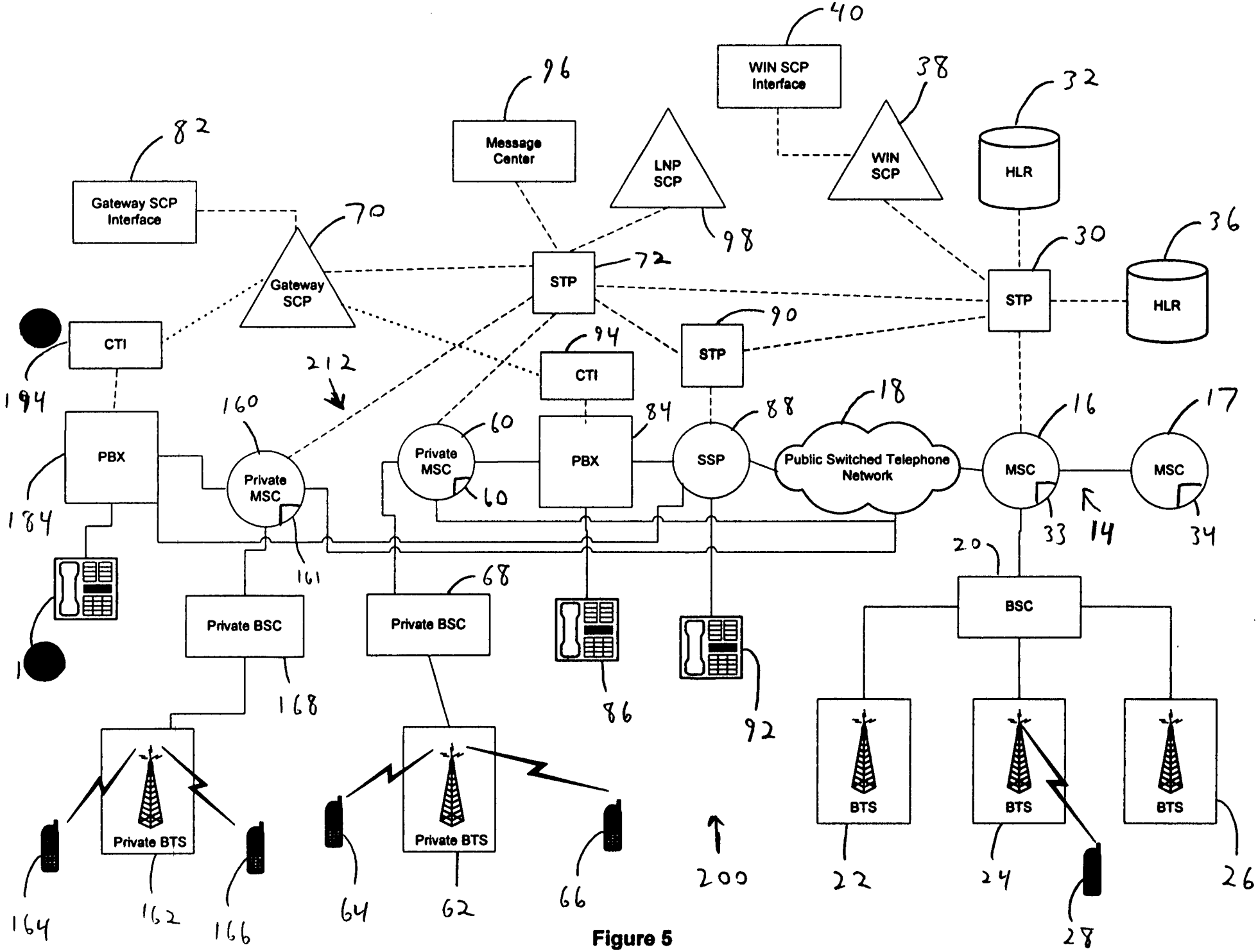
40
WIN SCP Interface
96
Message Center
38
WIN SCP
32
HLR
82
Gateway SCP Interface
LNP SCP
98
70
Gateway SCP
72
STP
30
STP
36
HLR
CTI
94
STP
90
194
212
160
CTI
60
Private MSC
84
PBX
88
SSP
18
Public Switched Telephone Network
16
MSC
17
MSC
PBX
Private MSC
60
184
161
33
14
34
20
BSC
68
Private BSC
Private BSC
168
86
92
BTS
BTS
BTS
Private BTS
Private BTS
200
22
24
26
28
164
162
166
64
62
66

Figure 5

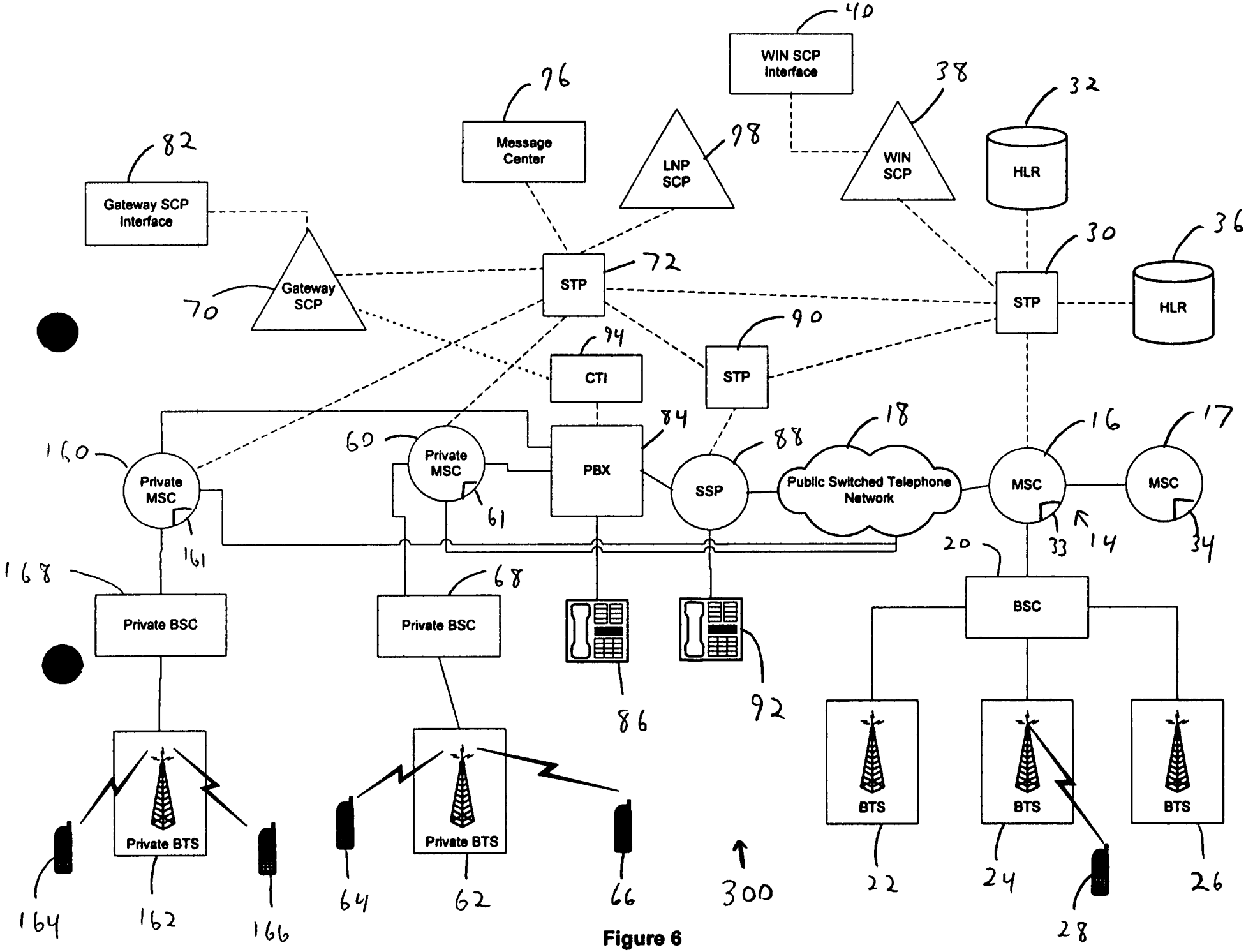

Figure 6

Registration and De-Registration while in Private Network

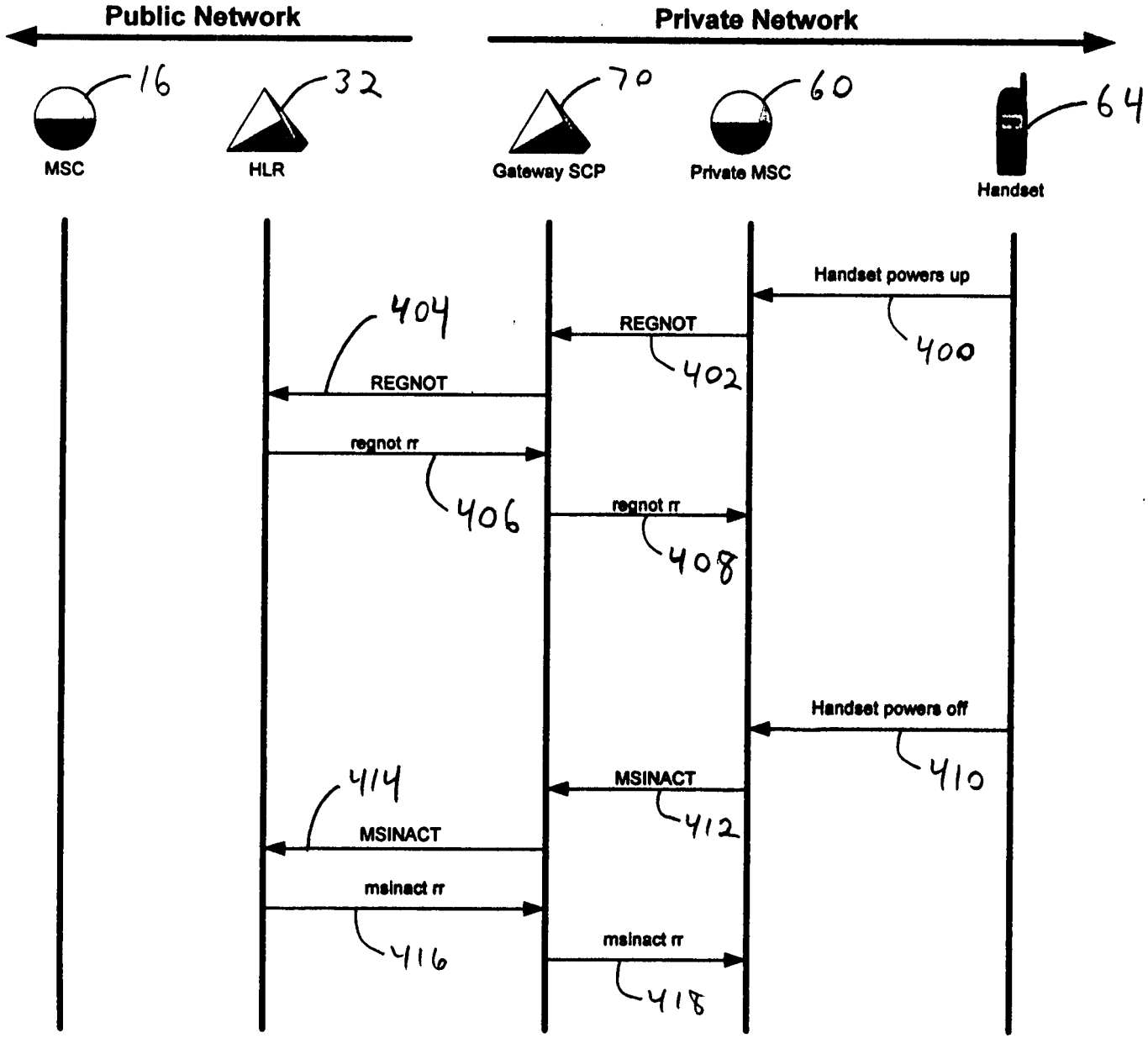

Figure 7

While within Private Network, originate call to handset within Private Network

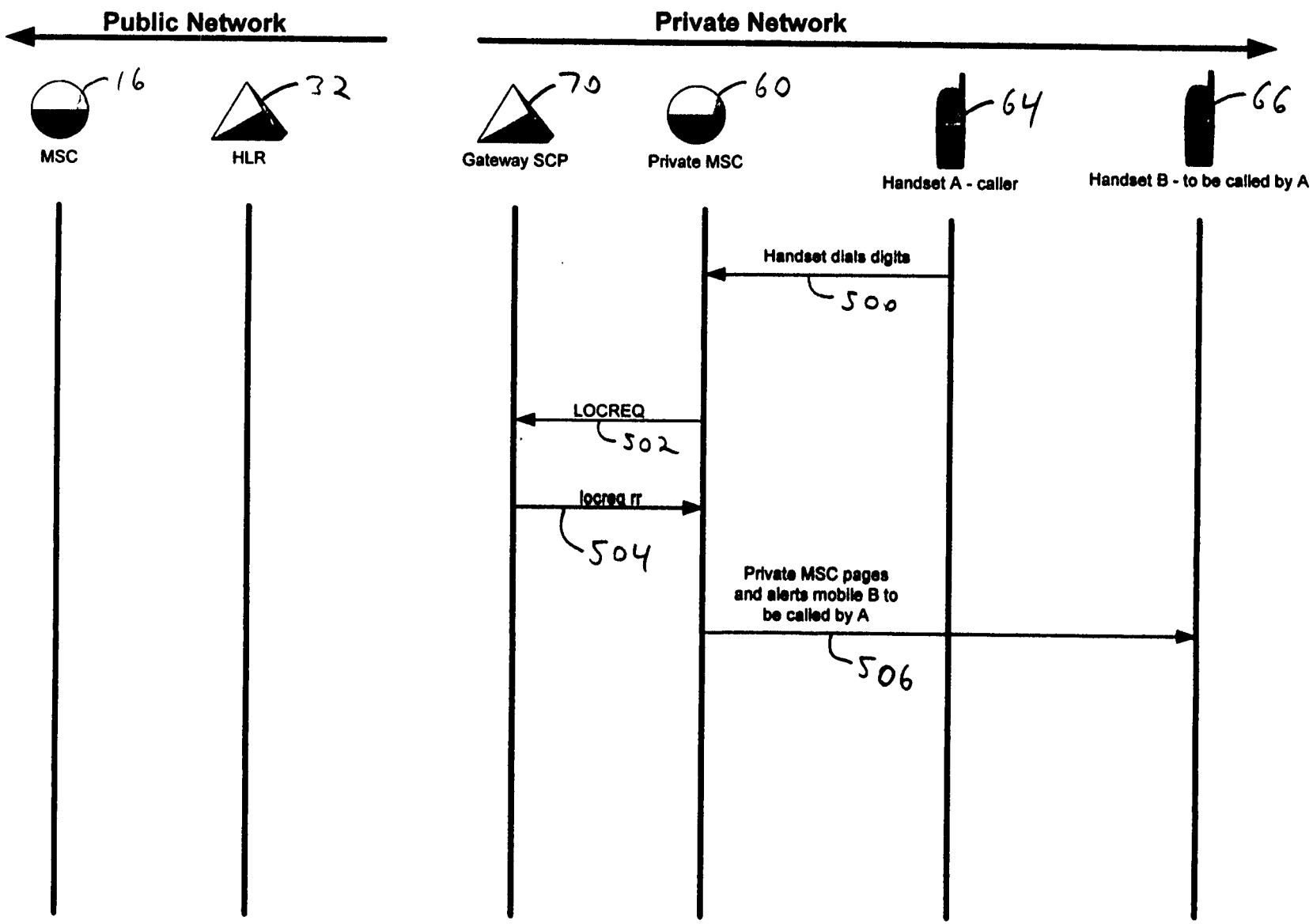

Figure 8

While within Private Network, a handset on one Private MSC originating a call to another handset on another Private MSC

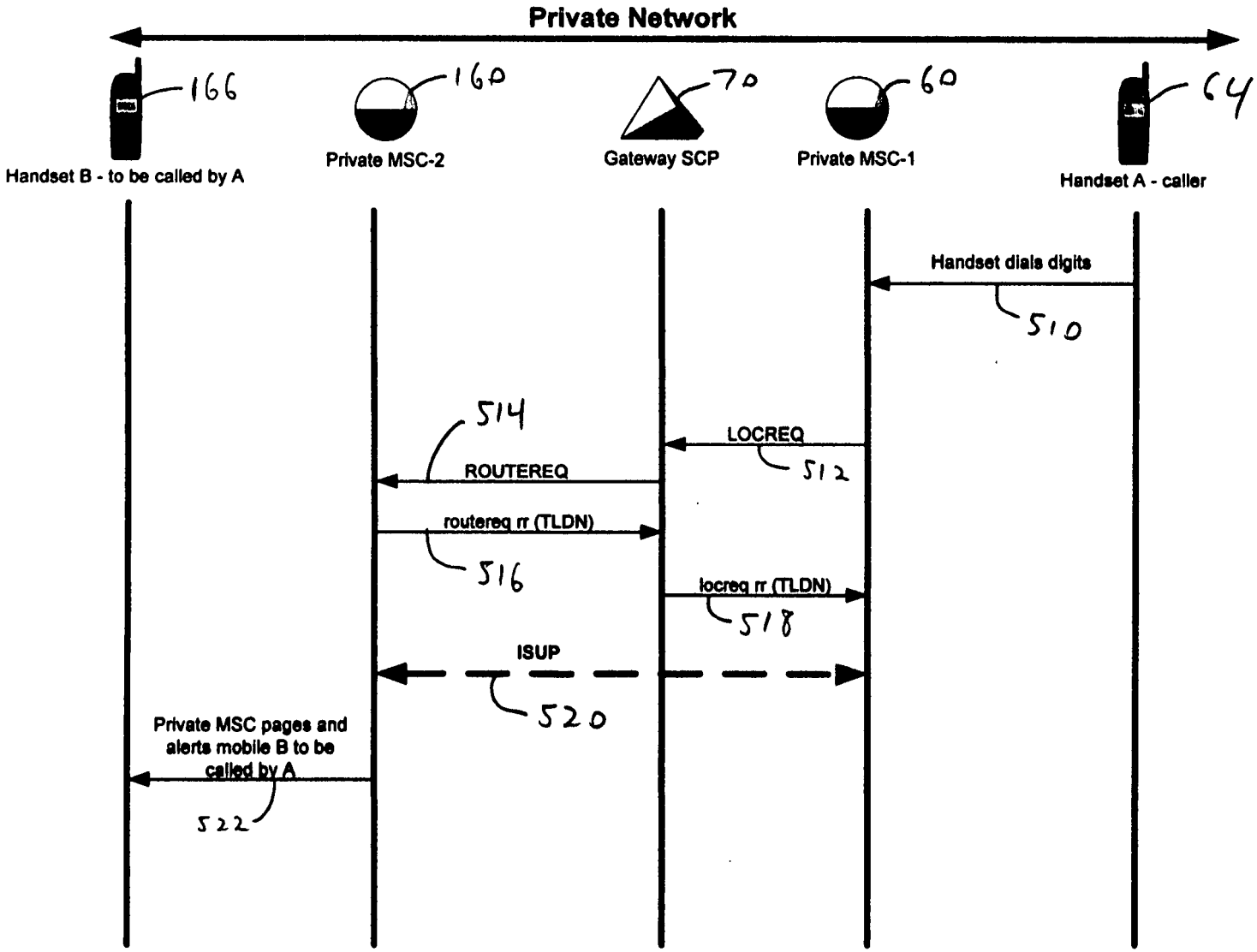

Figure 9

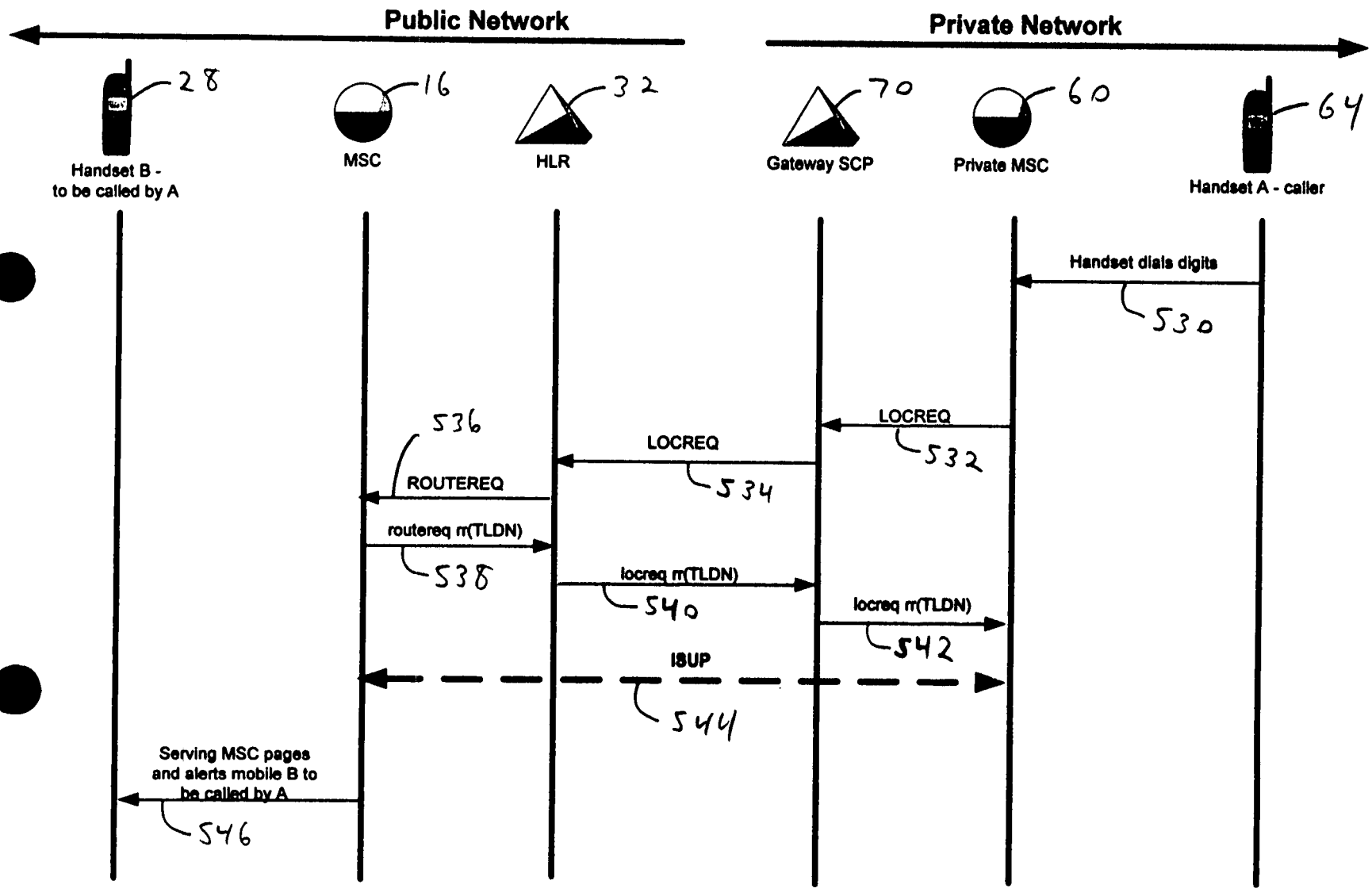
While within Private Network, originate call to handset in Public Network
Public Network
Private Network
28
16
32
70
60
64
Handset B - to be called by A
MSC
HLR
Gateway SCP
Private MSC
Handset A - caller
Handset dials digits
530
536
LOCREQ
532
LOCREQ
534
ROUTEREQ
routereq m(TLDN)
538
locreq m(TLDN)
540
locreq m(TLDN)
542
ISUP
544
Serving MSC pages and alerts mobile B to be called by A
546

Figure 10

Incoming PSTN call to a handset while the handset is within Private Network

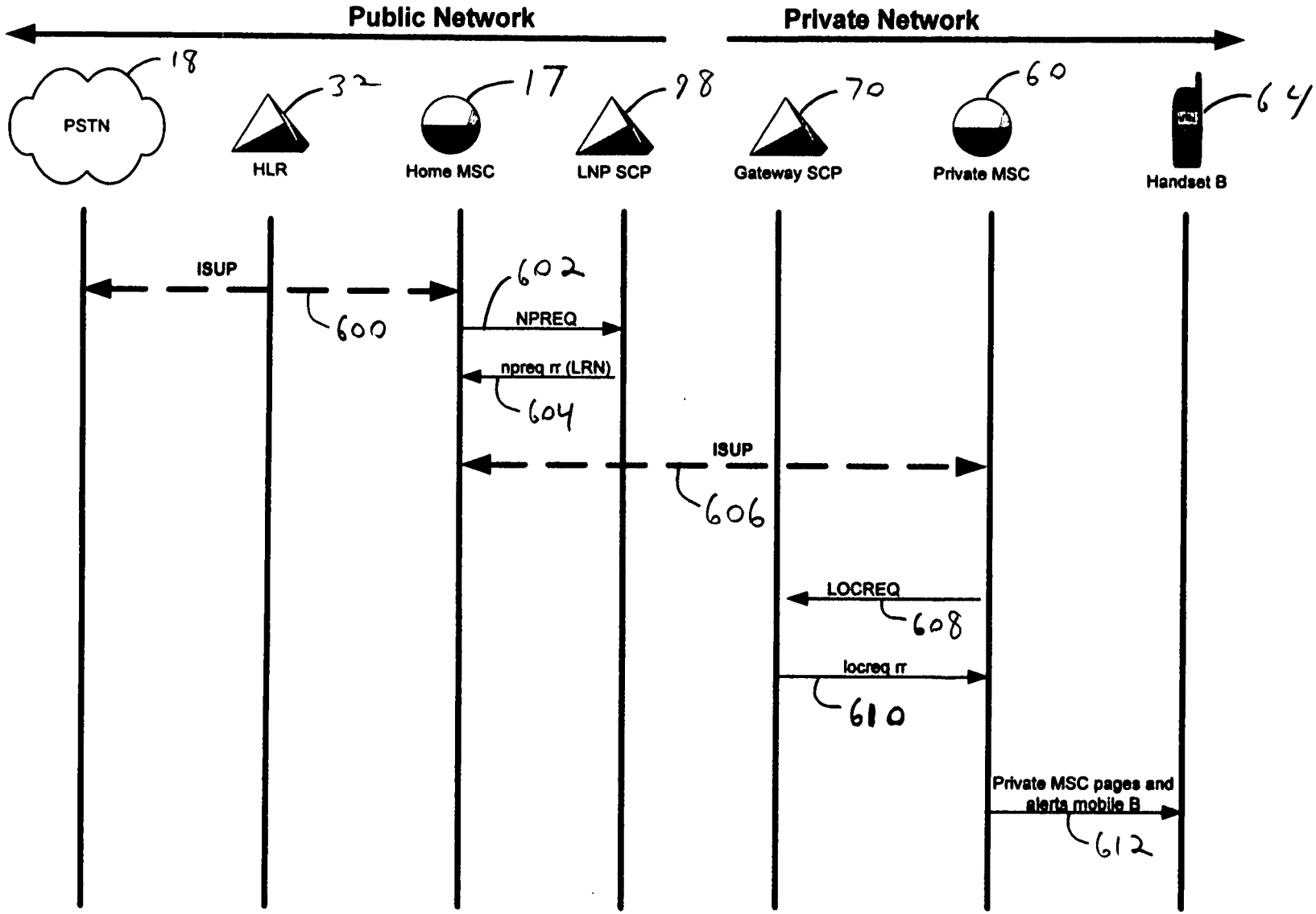

Figure 11

Incoming PSTN call to a handset while the handset is within the Public Network

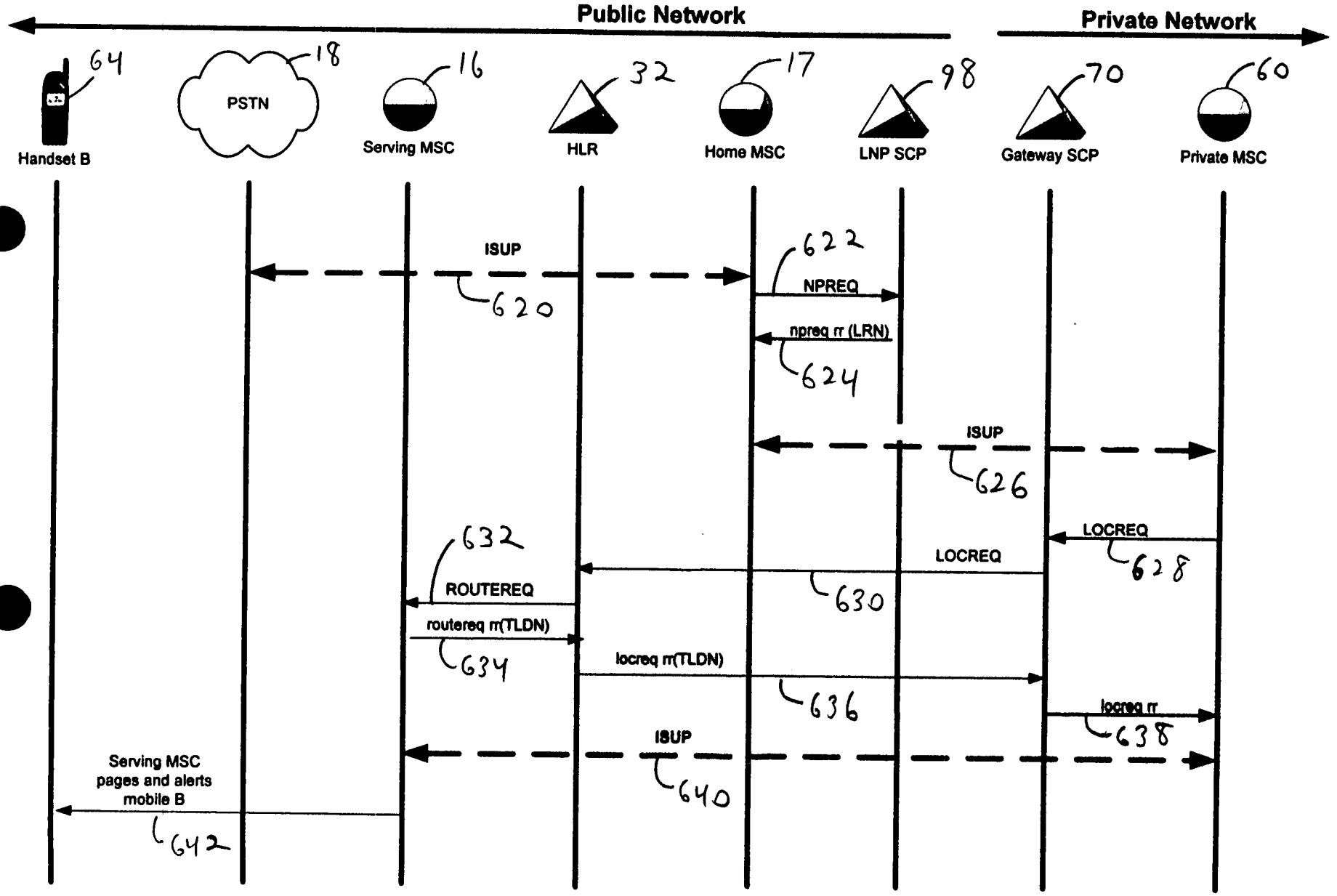

Figure 12

Call Origination Services While in Private Network

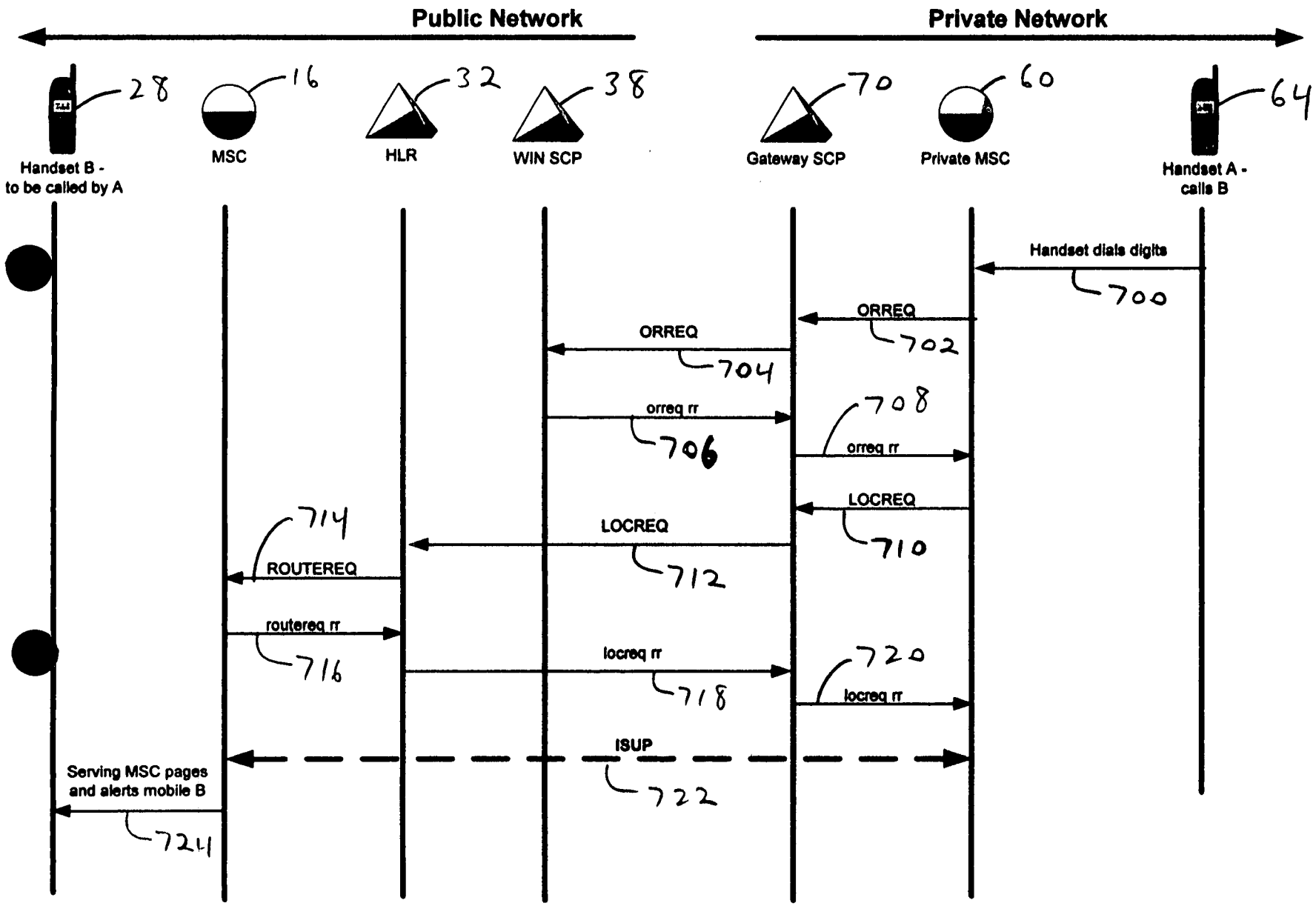

Figure 13

Call Originiation Services While in Public Network

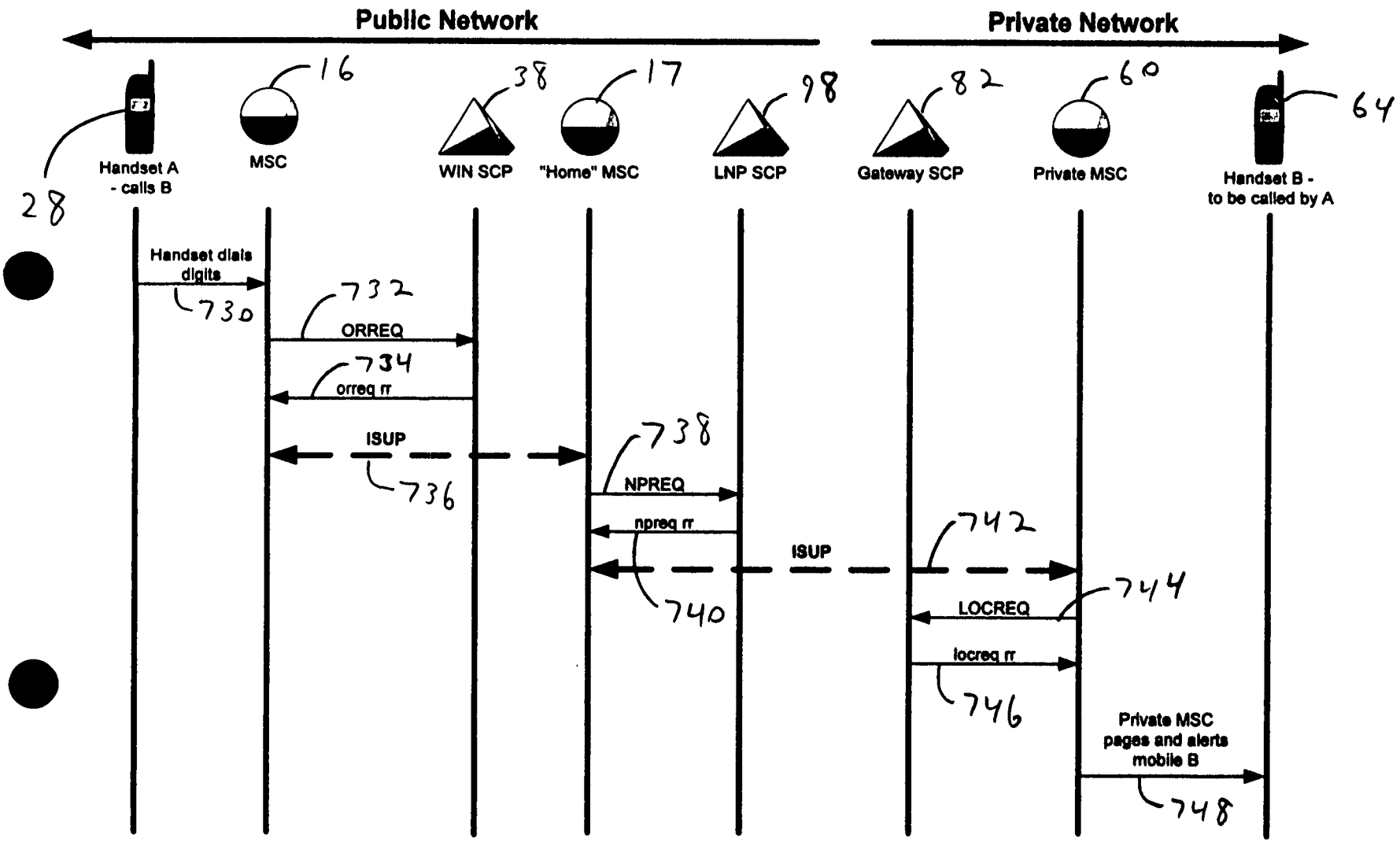

Figure 14

Call Termination Services While in Private Network

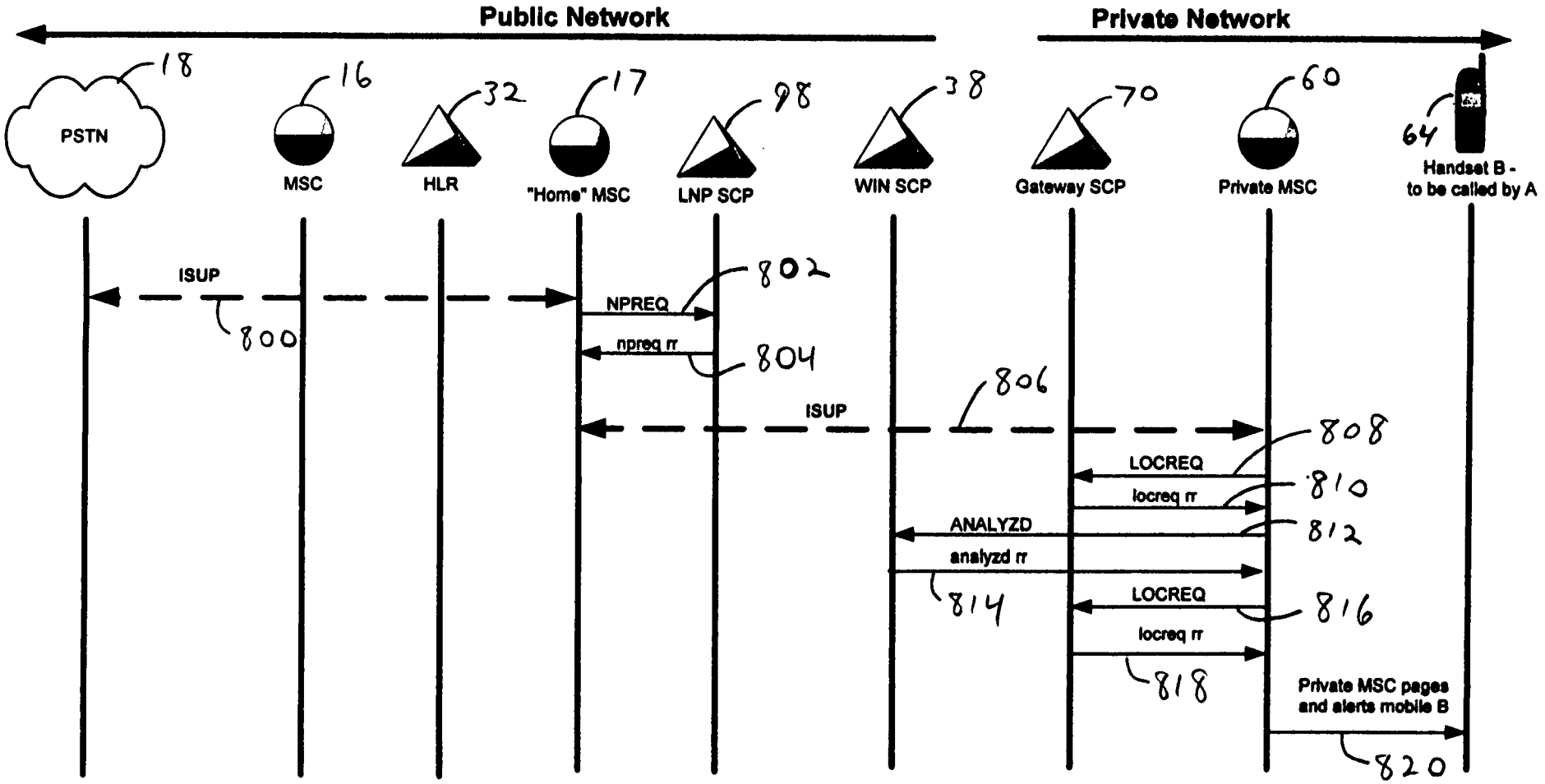

Figure 15

Call Termination Services While in Public Network

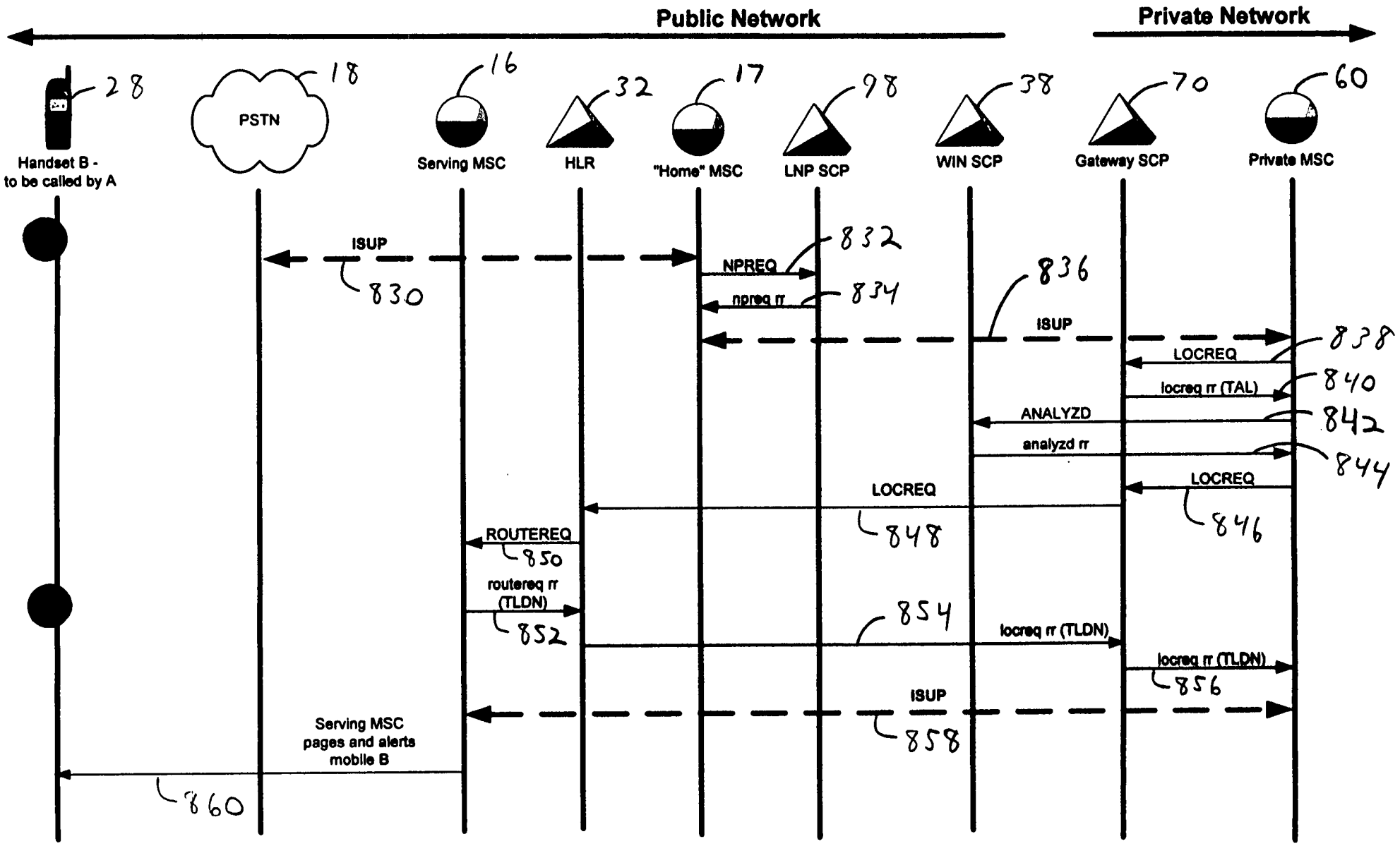

Figure 16

While within Private Network, Feature Code Update Performed

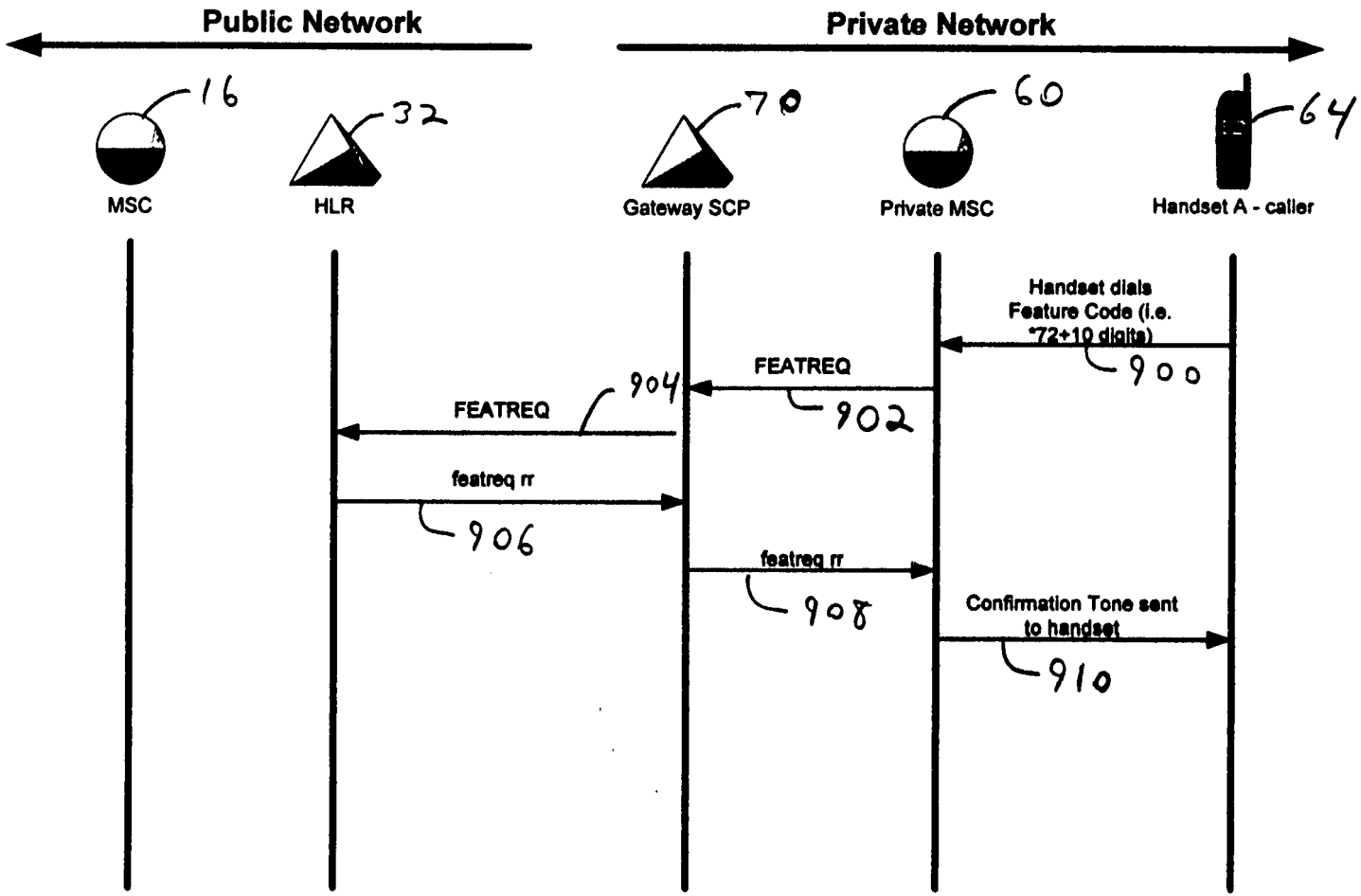

Figure 17

While within Public Network, Feature Code Update Performed

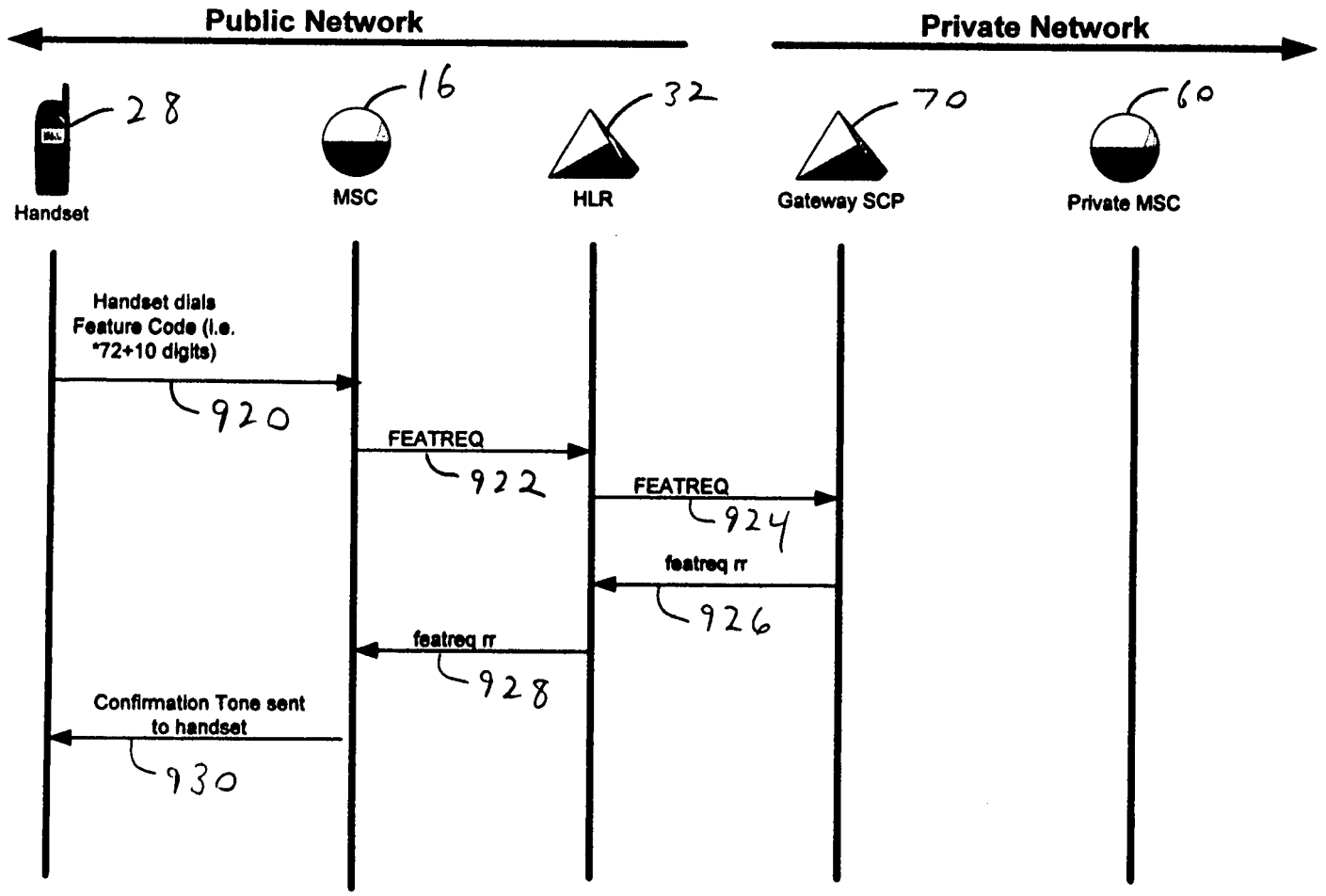

Figure 18

Overlap of Private Network and Public Network Wireless Coverage Areas

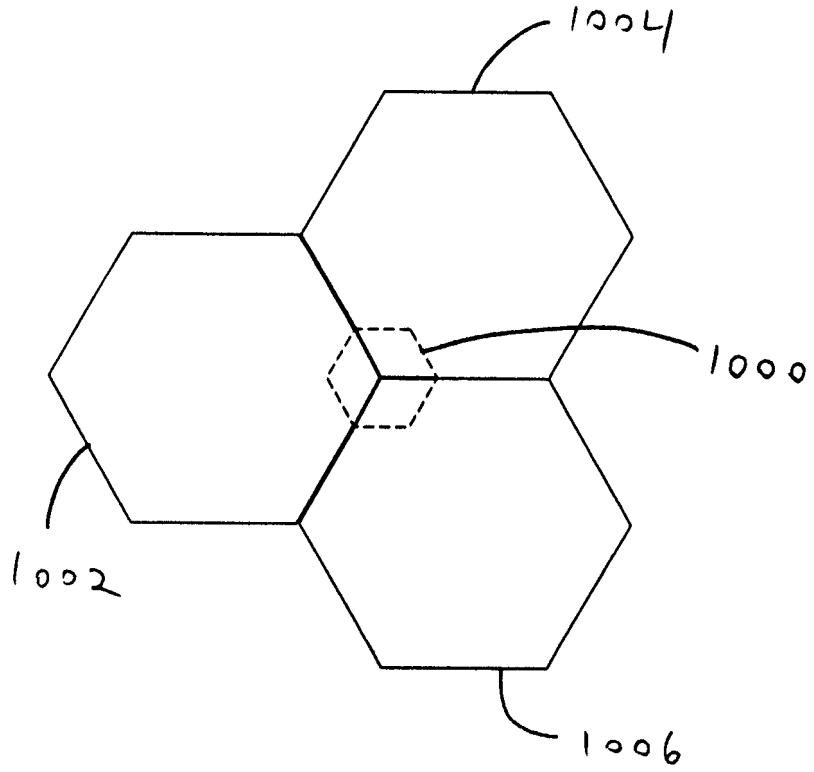

Figure 19

Inter-System Hand-off from Private Network to Public Network

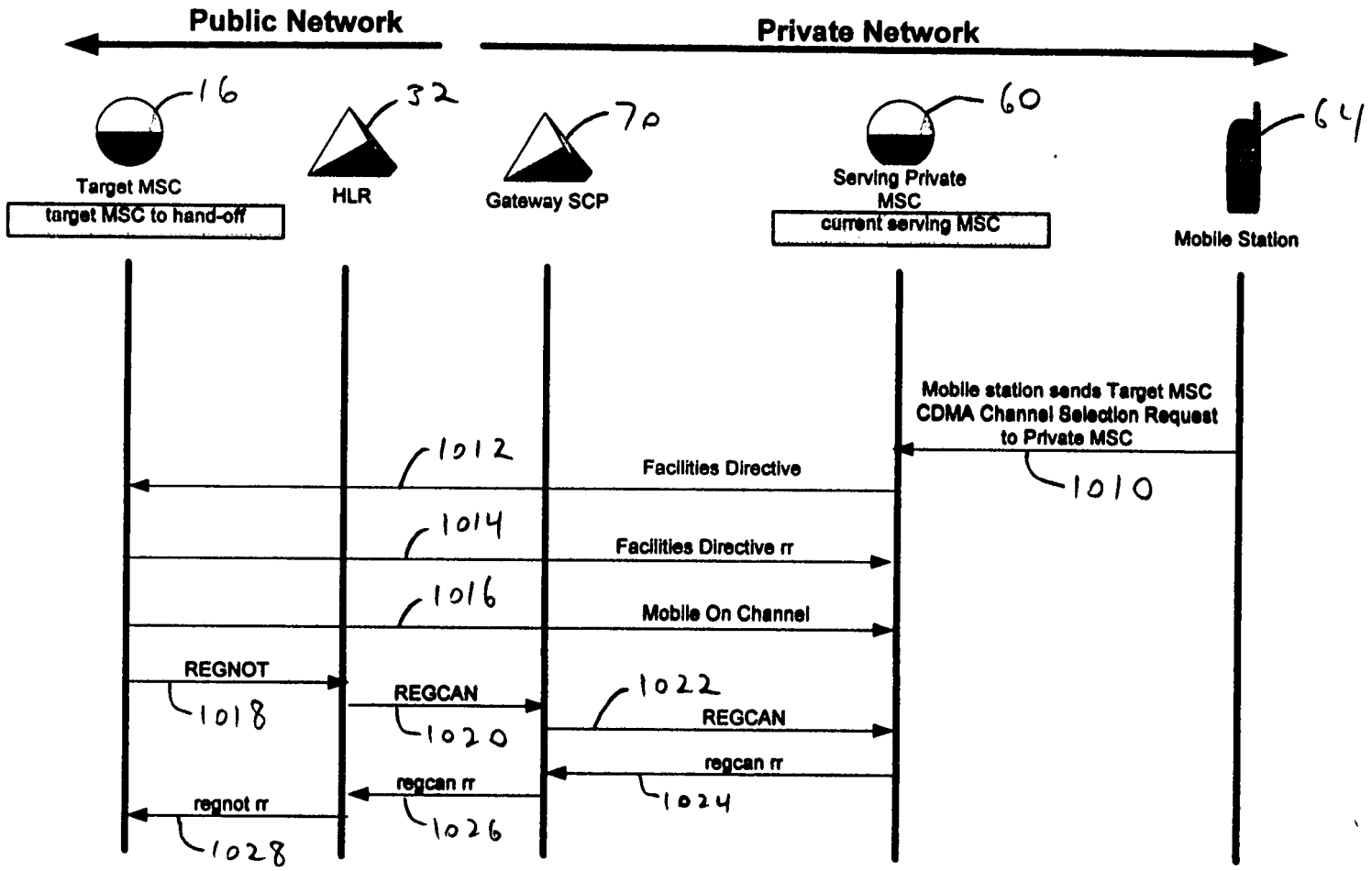

Figure 20

Inter-System Hand-off from Public Network to Private Network

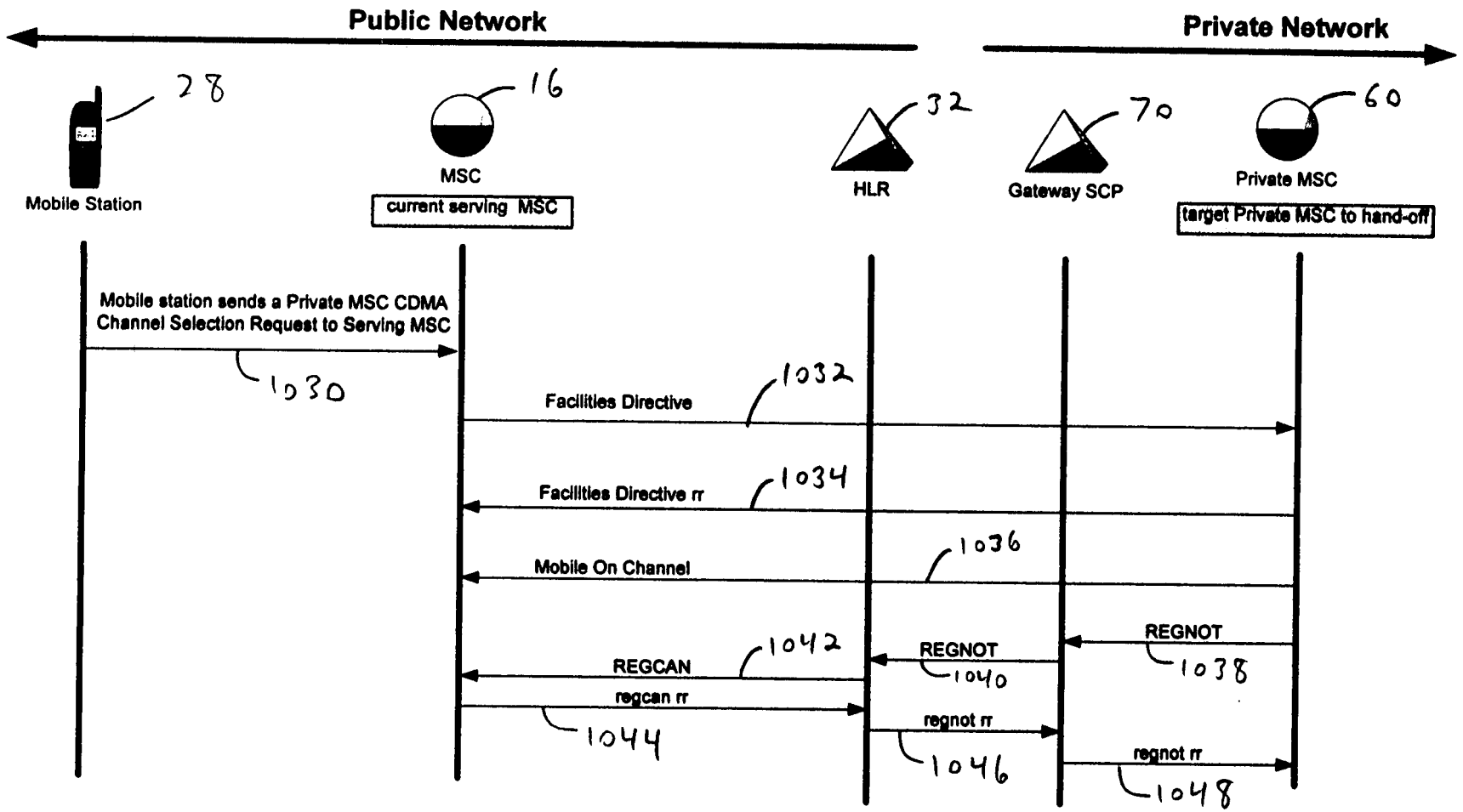

Figure 21

Inter-System Hand-off from One Private MSC to Another Private MSC within the Private Network

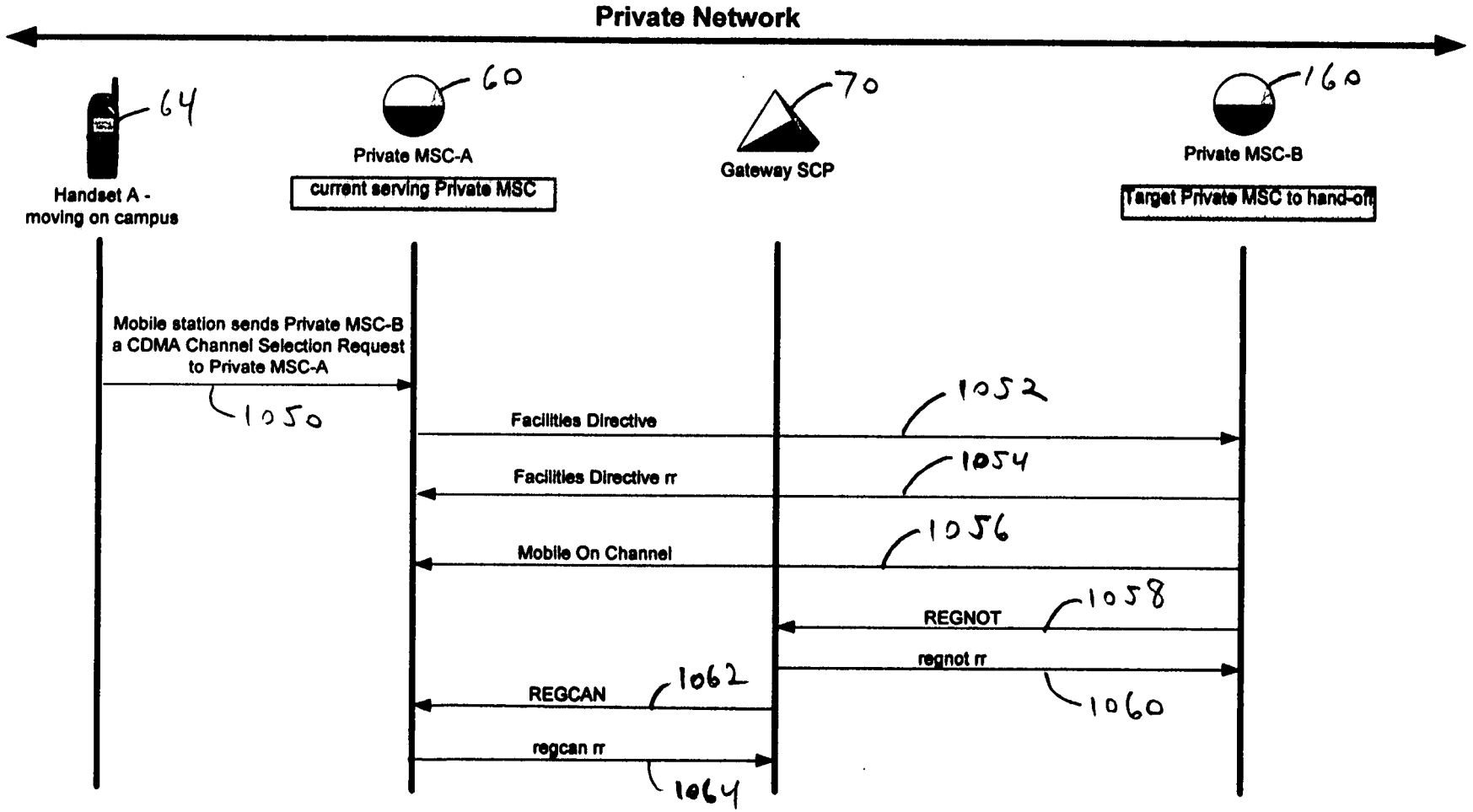

Figure 22

Short Message Delivery to Private MSC while in Private Network and active

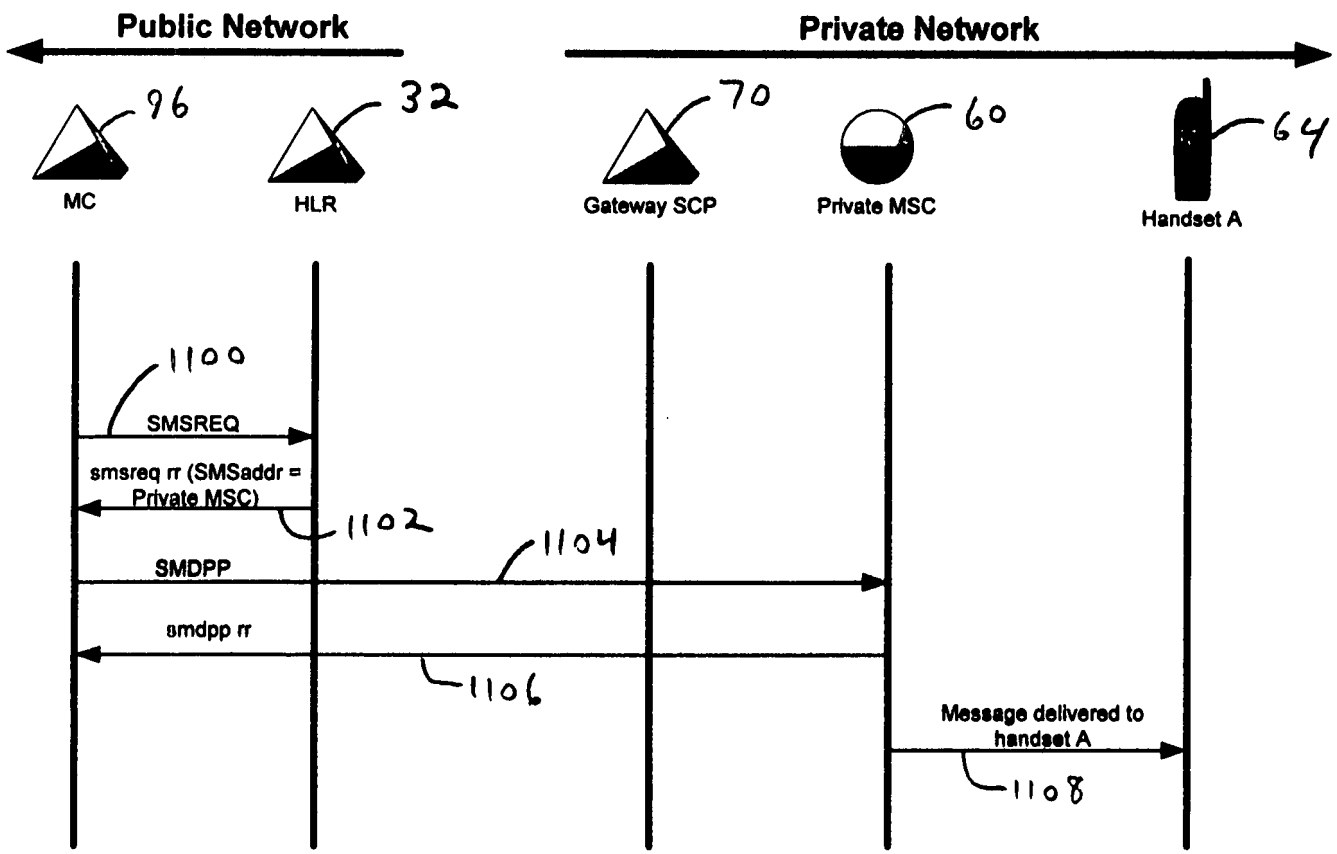

Figure 23

Short Message Delivery to Mobile Station first inactive, and then active, in Private Network

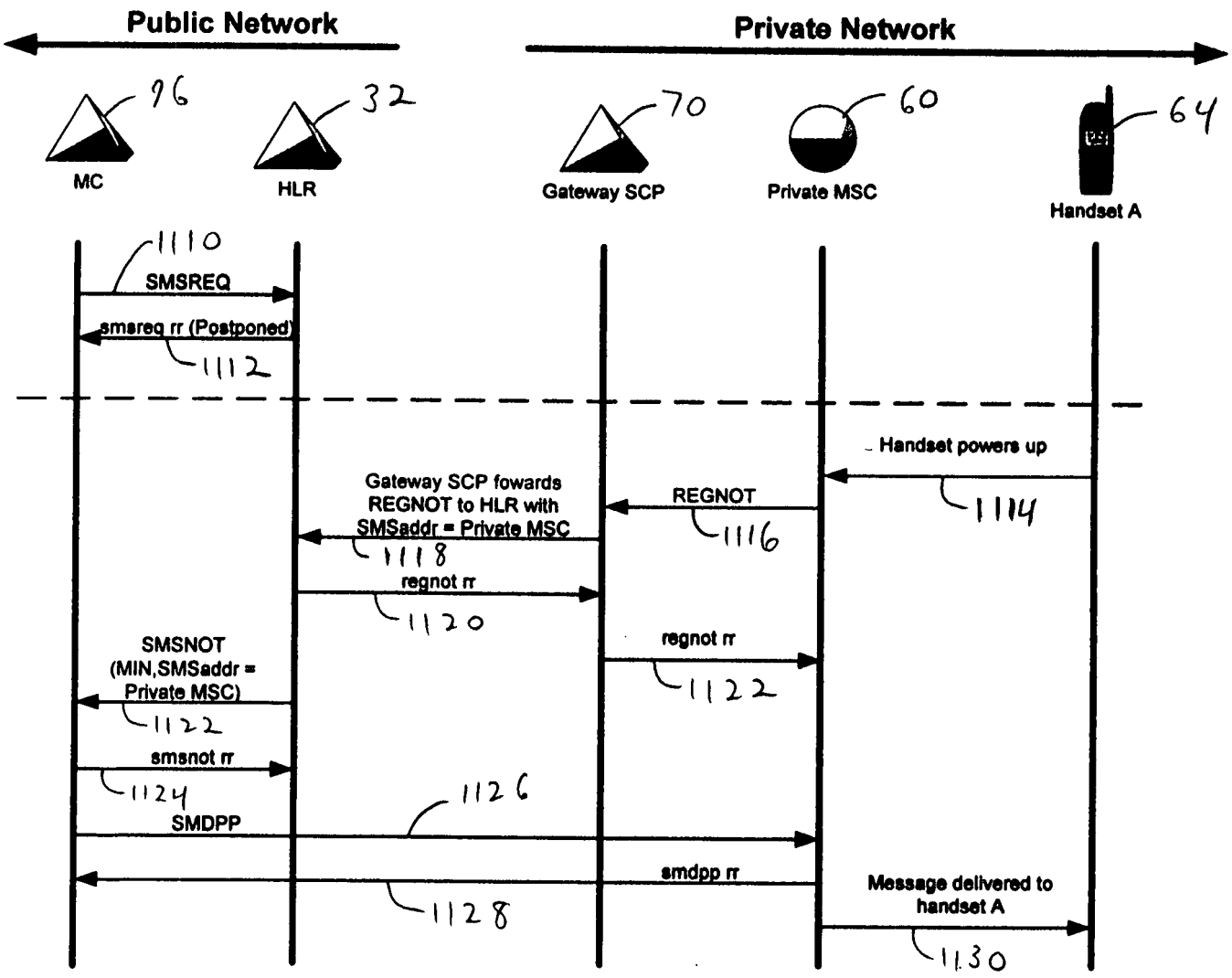

Figure 24

Private Network PBX Voice Mail Notification while in Private Network

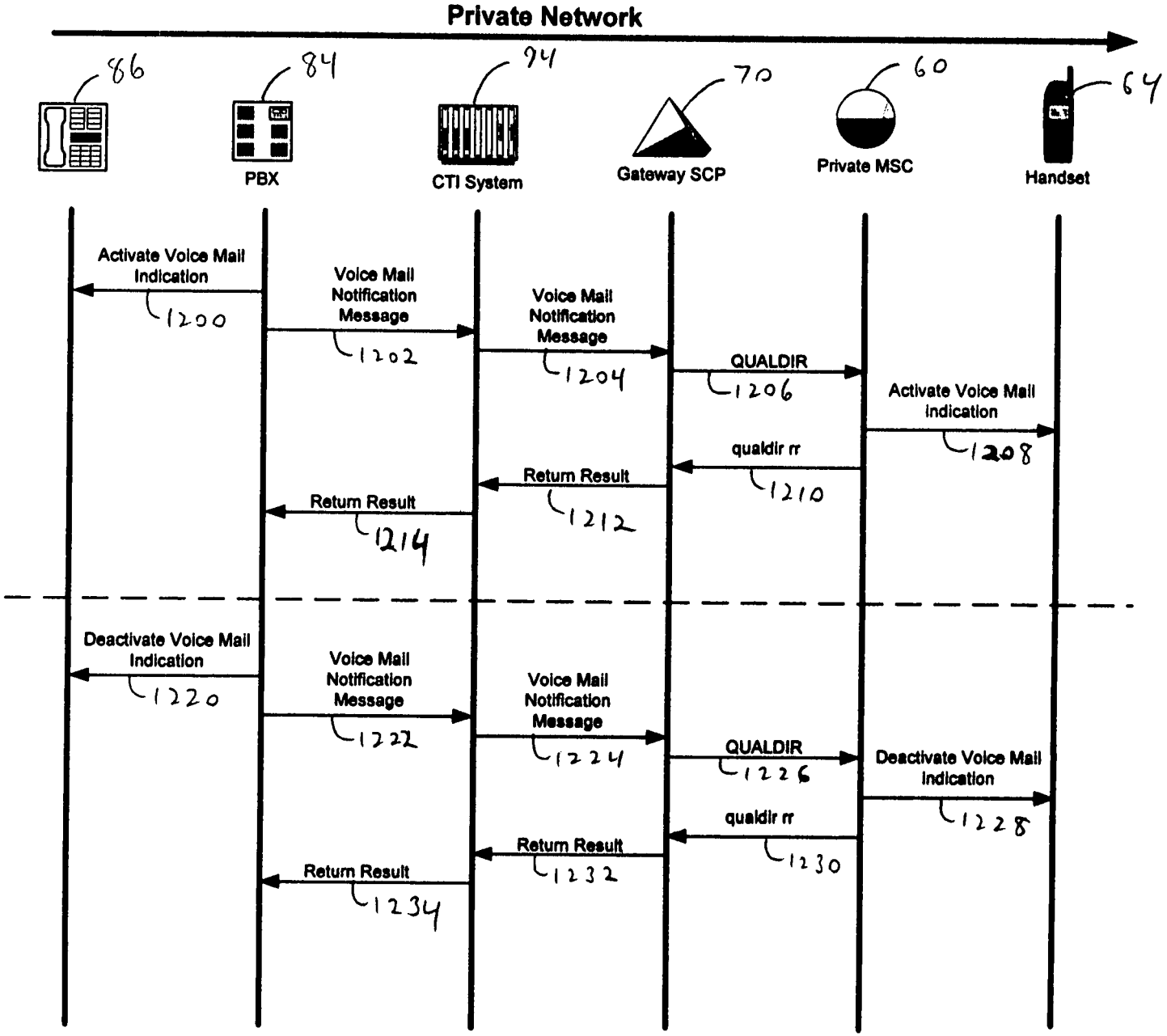

Figure 25

Private Network PBX Voice Mail Notification while in Public Network

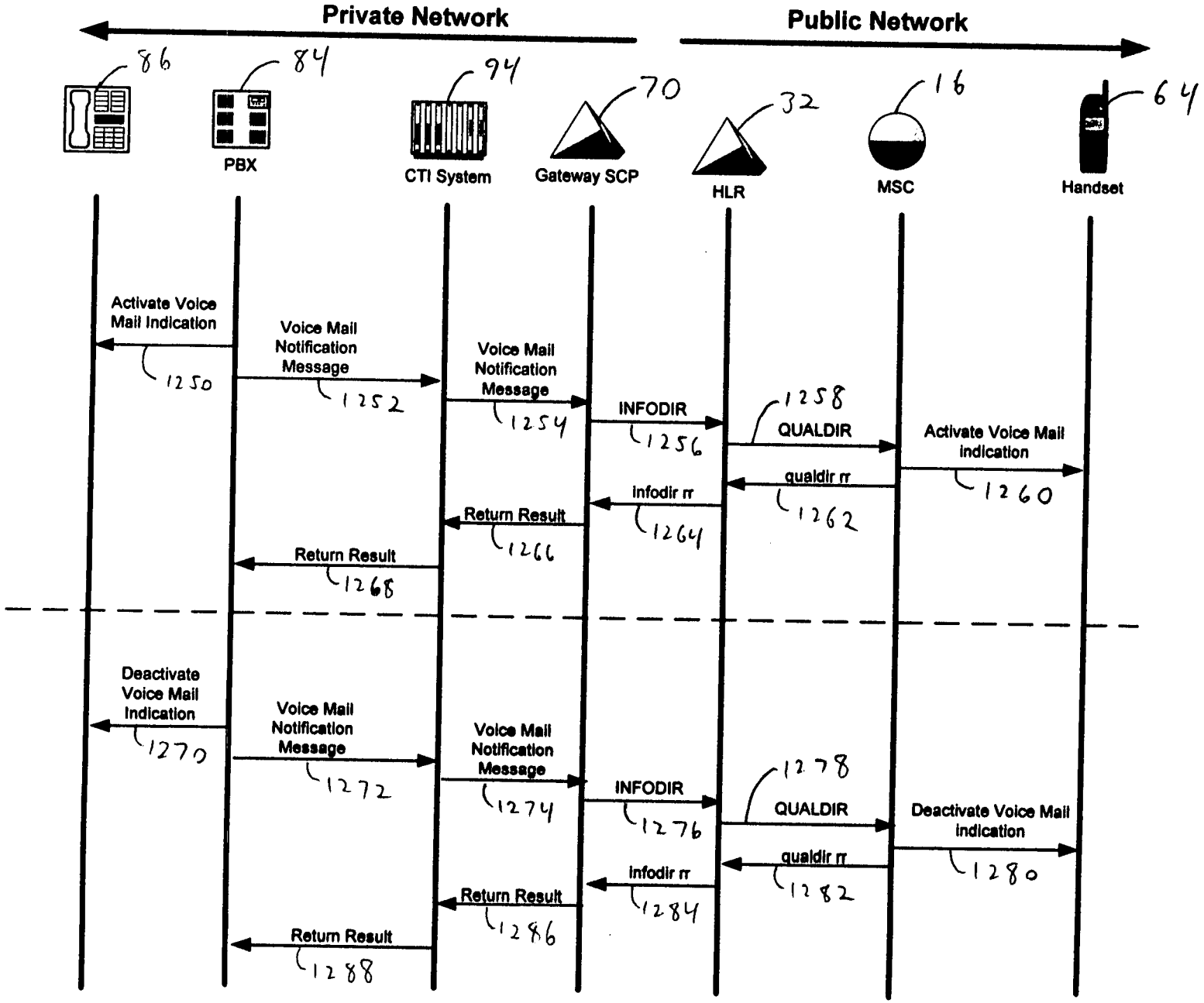

Figure 26